MANUFACTURE OF SILICA SOL

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Abstract of **JP 58110417 (A)**

PURPOSE:To manufacture a silica sol contg. particles having desired particle sizes and a narrow particle size distribution by adding an active acidic silica hydrosol to an aqueous alkali soln. in the presence of a soluble alkali metallic salt under specified conditions. CONSTITUTION:An active acidic silica hydrosol such as an unstable silica hydrosol of <= about 4pH obtd. by treating an alkali metallic silicate with a hydrogen type cation exchange resin is mixed with 40-1,000ppm soluble alkali metallic salt such as hydrochloride, sulfate or aluminate of Li, Na, K or Ce basing on the total amount, and the hydrosol is added to an aqueous alkali soln. at >= about 70 deg.C with stirring under conditions which adjust the molar ratio of SiO2/R2O (R is an alkali metal or NH3) to <=10.; The resulting aqueous soln. is concentrated by an ordinary method to obtain a silica hydrosol having controlled particle sizes.

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